

Reissue Application

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT(S) : Hiroyuki NAKANE et al.

REISSUE APPLN. NO. : 09/902,651

REISSUE FILING DATE : July 12, 2001

TITLE : MUTANT PRENYL DIPHOSPHATE SYNTHASE  
(AMENDED)

ART UNIT : 1652

EXAMINER : David Steadman

DOCKET NO. : 77670/593

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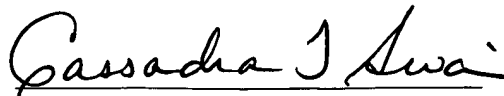
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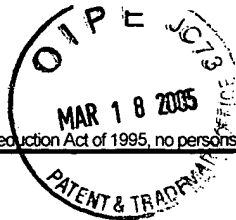
Applicants submit herewith a PTO/SB/08a Form listing the references cited during the original prosecution of the patent, in accordance with MPEP 1406 and pursuant to the Examiner's request in the Office Action of September 29, 2004. Since copies of the references were submitted during the original prosecution, copies are not submitted herewith. No fees are believed due.

Respectfully submitted,

Date: March 18, 2005

  
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Sheet 1 of 4

### Complete if Known

Application Number	09/902,651
Filing Date	July 12, 2001
First Named Inventor	Hiroiyuki NAKANE et al.
Group Art Unit	2652
Examiner Name	David Steadman
Attorney Docket Number	77670/593

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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### RELATED CO-PENDING U.S. PATENT APPLICATIONS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Filing Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	1	08/333,321	11-02-1994		
	2	08/410,167	03-24-1995		
	3	08/506,404	07-24-1995		
	4	08/534,910	09-28-1995		

### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	5	EP 0 674 000 A2	09-27-1995			
	6	EP 0 537 553 A2	04-21-1993			
	7	EP 0 699 761 A2	03-06-1996			
	8	EP 0 733 709 A2	09-25-1996			
	9	JP 409,065,878	03-11-1997	Ohnuma, et al.		

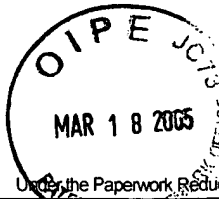
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**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

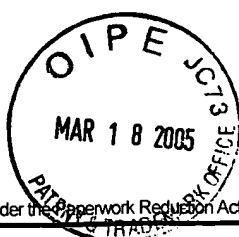
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	10	Math, et al., <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 89, Aug. 1992, pp. 6761-6764.	
	11	Ohnuma, et al., <i>J. Biol. Chem.</i> , 269:20, May 20, 1994, pp. 14792-14797.	
	12	Koyama, et al., <i>J. Biochem.</i> , 113:3, 1993, pp. 355-363.	
	13	Chen, et al., <i>J. Biochem.</i> , 268:15, 1993, pp. 11002-11007.	
	14	Chen, et al., <i>Arch. Biochem. Biosphys.</i> , 314:2, Nov. 1, 1994, pp. 399-404.	
	15	Chen, et al., <i>Protein Science</i> , Vol. 3, 1994, pp. 600-607.	
	16	Anderson, et al., <i>J. Biol. Chem.</i> , Vol. 264, Nov. 15, 1989, pp. 19176-19184.	
	17	Jeong, et al., <i>J. DNA Sequencing &amp; Mapping</i> , Vol. 4, 1993, pp. 59-67.	
	18	Koike-Takeshita, et al., <i>J. Biol. Chem.</i> , 270:31, Aug. 4, 1995, pp. 18396-18400.	
	19	Fujisaki, et al., <i>J. Biochem.</i> , 108:6, 1990, pp. 995-1000.	
	20	Ashby, et al., <i>J. Biol. Chem.</i> , 265:22, Aug. 5, 1990, pp. 13157-13164.	
	21	Teruya, et al., <i>Mol. Cell. Biol.</i> , 10:5, May 1990, pp. 2315-2326.	
	22	Sheares, et al., <i>Biochemistry</i> , 28:20, 1989, pp. 8129-8135.	
	23	Wilkin, et al., <i>J. Biol. Chem.</i> , 265:8, Mar. 15, 1990, pp. 4607-4614.	

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Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	24	Armstrong, et al., <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 87, Dec. 1990, pp. 9975-9979.	
	25	Scolnik, et al., <i>Plant Physiol.</i> , Vol. 104, 1994, pp. 1469-1470.	
	26	Aitken, et al., <i>Plant Physiol.</i> , Vol. 108, 1995, pp. 837-838.	
	27	Badillo, et al., <i>Plant Mol. Biol.</i> , Vol. 27, 1995, pp. 425-428.	
	28	<i>Plant Physiol.</i> , 108:3, 1995, p. 1343.	
	29	Lang, et al., <i>J. Bacteriol.</i> , 178:8, Apr. 1995, pp. 2064-2073.	
	30	Armstrong, et al., <i>Mol. Gen. Genet.</i> , Vol. 216, 1989, pp. 254-268.	
	31	EMBL release 45, Dec. 1995 (14 pages).	
	32	Carattoli, et al., <i>J. Biol. Chem.</i> , 266:9, Mar. 25, 1991, pp. 5854-5859.	
	33	Koyama, <i>Can. J. Chem.</i> , Vol. 72, 1994, pp. 75-79.	
	34	Ohnuma, et al., <i>J. Biol. Chem.</i> , 271:17, Apr. 26, 1996, pp. 10087-10095.	
	35	Koyama, et al., <i>Biochemistry</i> , 33:42, 1994, pp. 12644-12648.	
	36	Ohnuma, et al., <i>J. Biol. Chem.</i> , 271:31, Aug. 2, 1996, pp. 18831-18837.	
	37	Tarshis, et al., <i>Biochemistry</i> , 33:36, 1994, pp. 10871-10877.	

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